

## Contents Index

### Research Articles

- A National Hockey League Franchise: The Modified Threshold Concept in Central Place Theory  
**Ronald L. Geddert and R. Keith Semple** ..... 1
- The Influence of Awareness on Spatial Behavior in Recreational Boating  
**Richard R. Perdue** ..... 15
- Outdoor Recreation Expenditures and the Effects of Spatial Structure  
**Daniel R. Fesenmaier and Stanley R. Lieber** ..... 27
- National Parks in the Third World and Associated National Characteristics  
**G. Wesley Burnett and Lisa Mathis Butler** ..... 41
- The Relationship of Age, Gender, Health and Economic Status to the Psychological Benefits Older Persons Report from Participation in Leisure Activities  
**Howard E. A. Tinsley, Sandy L. Colbs, Joseph D. Teaff and Nancy Kaufman** ..... 53

### Research Articles

- Hybrid and Non-Hybrid Evaluation Models for Predicting Outdoor Recreation Behavior: A Test of Predictive Ability  
**Harry J. Timmermans** ..... 67
- The Influence of Activity Importance and Similarity on Perception of Recreation Substitutes  
**Michael J. Manfredo** ..... 77
- Perceived Crowding in Recreation Settings: An Urban Case Study  
**Theresa N. Westover and John R. Collins, Jr.** ..... 87
- Use of Cognitive Maps to Determine Perceived Tourism Regions  
**Joseph D. Fridgen** ..... 101
- Reconceptualizing Barriers to Family Leisure  
**Duane W. Crawford and Geoffrey Godbey** ..... 119

### Research Notes

- Satisfaction Levels of Birdwatchers: An Observation of the Consumptive-Non-Consumptive Continuum  
**James E. Applegate and Kathleen E. Clark** ..... 129

Engagement As a Criterion for Defining Homogeneous Groups: Implications for  
Mailed Surveys

- R. H. Becker, F. D. Dottavio and K. K. Mengal** ..... 135

Reviews

Book Review

- James H. Gramann** ..... 141

Research Articles

Women, Work, and Leisure: The Days of Our Lives

- Maria T. Allison and Margaret C. Duncan** ..... 143

Measurement Specification and Leisure Satisfaction

- Francis P. Noe** ..... 163

The Ethics of Play, Leisure and Recreation in the Twentieth Century, 1900-1983

- Charles D. Sylvester** ..... 173

Later Life Satisfaction: Does Leisure Contribute?

- John R. Kelly, Marjorie W. Steinkamp and Janice R. Kelly** ..... 189

Reviews

The ROS Planning System: Evolution, Basic Concepts, and Research Needed

- B. L. Driver, Perry J. Brown, George H. Stankey and  
Timothy G. Gregoire** ..... 201

Book Review

- James Butler and Elaine Butler** ..... 213

Research Articles

Disproportionate Sampling and Recreation Demand Estimation with the 1980  
National Survey of Fishing, Hunting and Wildlife-Associated Recreation

- Jon R. Miller** ..... 215

Age of First Hunting Experience: Results from a Nationwide Recreation Survey

- Joseph T. O'Leary, Jean Behrens-Tepper, Francis A. McGuire and  
F. Dominic Dottavio** ..... 225

Outdoor Recreation Participation and Views on Resource Development  
and Preservation

- Edgar L. Jackson** ..... 235

The Relationship of Early Life Experiences to Later Life Leisure Involvement

- Francis A. McGuire, F. Dominic Dottavio and Joseph T. O'Leary** ..... 251

Physical Correlates of Perceived Quality in Lakeshore Development <b>Jack L. Nasar</b> .....	259
Propositions Addressing Perceptions of Reference Price for Public Recreation Services <b>Ron McCarville and John L. Compton</b> .....	281
Book Review .....	293
Acknowledgments .....	297